Garant

GARANT Master UNI solid carbide milling cutter HPC, TiSiN, Ø e8 DC: 16mm



Order data

Order number	203073 16
GTIN	4067263092049
Item class	11Z

Description

Version:

For **roughing and finishing at very high feed rates** with smooth cutting action. **Newly developed geometry and high-performance coating** for excellent production results with maximum tool life in various materials. **High intrinsic stability** and smooth cutting action due to unequal spacing.

Advantage:

- Particularly low vibration running.
- Special flute profile, large flutes.
- · Specially matched edge honing.
- $\cdot\,$ Optimised substrate for hardness and toughness.

Technical description

Corner rounding r _v	0.3 mm		
Cutting edge Ø D _c	16 mm		
Feed f_z for slot milling in steel < 900 N/mm ²	0.07 mm		
No. of teeth Z	4		
Feed f_z for slot milling in stainless steel > 900 N/mm ²	0.04 mm		
Feed f_z for side milling in steel < 900 N/mm ²	/mm ² 0.09 mm		
Helix angle	42 degrees		
Direction of infeed	horizontal, oblique and vertical		
Shank	DIN 6535 HB to h6		

Feed f_z for side milling in INOX > 900 N/mm ²) N/mm ² 0.05 mm		
Tolerance nominal Ø	e8		
Overhang length L ₁ incl. recess	58 mm		
Overall length L	110 mm		
Flute length L _c	48 mm		
Shank Ø D _s	16 mm		
Recess Ø D ₁	15.5 mm		
Series	Master Uni		
Coating	TiSiN		
Tool material	Solid carbide		
Standard	Works standard		
Туре	Ν		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
Cutting width a_e for milling operation	0.3×D for side milling		
Cutting width a_e for milling operation	0.3×D for side milling		
Through-coolant	no		
Machining strategy	HPC		
Colour ring	green		
Type of product	End / face mill		

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	280 m/min	Ν
Steel < 500 N/mm ²	suitable	260 m/min	Р
Steel < 750 N/mm ²	suitable	240 m/min	Р
Steel < 900 N/mm ²	suitable	190 m/min	Р
Steel < 1100 N/mm ²	suitable	180 m/min	Р

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Steel < 1400 N/mm ²	suitable	150 m/min	Р
INOX < 900 N/mm ²	suitable	90 m/min	Μ
INOX > 900 N/mm ²	suitable	80 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	40 m/min	S
GG(G)	suitable	250 m/min	К
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		